



A3 Bookedge Scanner

User's Manual



Regulatory model: DT-0602S

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- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your point of purchase or service representative for additional suggestions.

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This symbol on the product or on its packaging indicates that the product can not be disposed of with your other household waste. Instead it should be sent to appropriate facilities for recovery and recycling in an effort to protect human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



As an ENERGY STAR® Partner, Avison Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

System Requirements

- IBM compatible PC 586, Pentium or higher
- Microsoft Windows 98SE/Me/2000/XP
- USB port 2.0 (compatible with USB 1.1)
- At least 100 MB of free hard disk space
- At least 128 MB of system memory
- A CD-ROM drive

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1. INTRODUCTION

Congratulations on your purchase of the Avison's A3-sized bookedge scanner. Avison is one of the leading companies to make high quality color image scanner.

To ensure the optimum performance of the scanner, please take a few minutes to read through this manual before you install and operate the new scanner. The manual contains valuable information on how to unpack, install, operate, and maintain the scanner properly.

Figure 1-1 in below shows how the scanner is packed. Please check if all items are included. If there is any item missing or damaged, please contact your nearest dealer immediately for replacement.



1. Scanner main unit
2. Power adapter
3. Power cord
4. USB cable
5. User's manual/CD

Figure 1-1 Scanner Packaging

Note: When you unpack the scanner, retain the packing material and shipping box in case you may transport the scanner in the future.

Note:

1. Only use the AC adapter (HEG42-240200-7L by HiTron) included in the machine. Using other AC adapters may damage the machine and void the warranty.
2. Please unpack the packing carefully, and check the contents against the checklist. If any items are missing or damaged, please contact your dealer immediately.

2. SCANNER INSTALLATION

2.1 PRECAUTIONS

- Keep the scanner out of direct sunlight. Direct exposure to the sun or excessive heat may cause damage to the unit.
- Do not install the scanner in a humid or dusty place.
- Place the scanner securely on an even, flat surface. Tilted or uneven surfaces may cause mechanical problems.
- Keep the shipping box and the material in case you may need to ship the scanner again.

2.2 UNLOCKING YOUR SCANNER

To protect the scanning unit from damage during transportation, a lock switch is designed at the back of the scanner to keep the scanning unit from moving. To unlock the scanner, move the lock switch up as shown in Fig. 2-1.

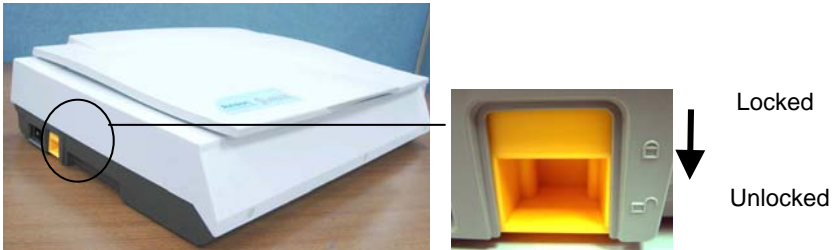


Figure 2-1 Unlocking the Scanner

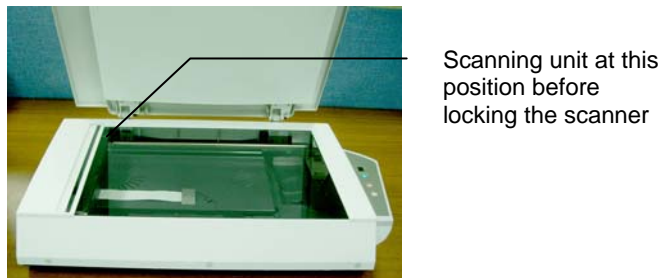


Figure 2-2 Home position

Note: If the scanning unit is not located at the front of the scanner before transporting the scanner, be sure to do the follows:

- 1. Turn on the scanner.*
 - 2. The scanning unit should move to the front of the scanner.*
 - 3. Press the lock switch down to the "Lock position".*
 - 4. The scanner is now ready to transport.*
-

2.3 INSTALLING THE SCANNER DRIVER AND CABLES

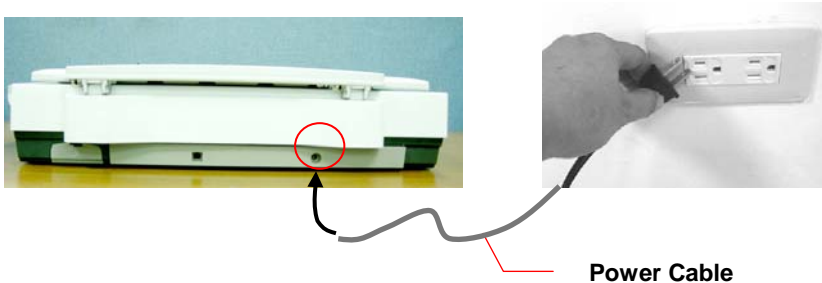
Note:

1. The Windows system CD may be required when installing on some PC's.
2. To ensure your computer can identify the USB scanner, please install scanner driver first before connecting the scanner to your computer.

2.3.1 CONNECTING TO POWER

Make sure the power of scanner is off.

Plug the small end of the power adaptor into the power jack of your scanner. Insert the other end to an appropriate power outlet.



2.3.2 INSTALLING THE SCANNER DRIVER

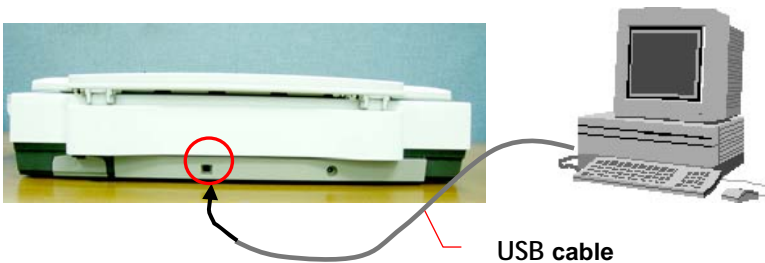
1. Place the supplied CD-ROM onto your CD-ROM drive.
2. The software installation graphic appears. If not, run "**setup.exe**".



3. Choose **Install Button Manager** first and then **install Scanner Driver** and follow the on-screen instruction to complete the installation.

2.3.3 CONNECTING TO COMPUTER

1. Connect the **square end** of the USB cable to the USB port of your scanner. Connect the **rectangle end** to the USB port of your computer.



2. The computer should detect a new USB device and prompt a **“New Hardware Found”** message.



(Windows 9X/Windows ME)

3. In Windows 9X, Windows 2000 or Windows ME, confirm that the **“Search for a better driver.”** is selected and click the **“Next”** button.



In Windows XP, click the **Next** button to continue. When the XP certification screen appears, click **Continue Anyway** to complete the installation.

4. When the **Finish** dialog is prompted, click the **Finish** button.
5. Click **“View Manual”** to view or print the detailed user manual for the scanner and bundled applications respectively.

Note:

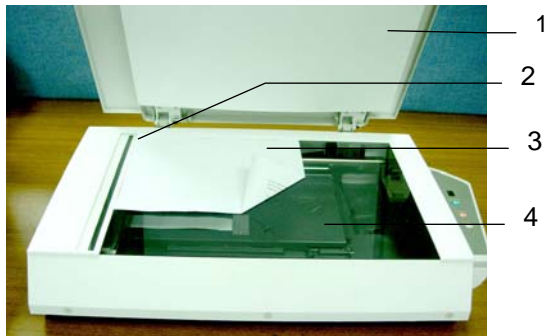
To uninstall the scanner driver in Windows XP/2000, be sure to keep your scanner connecting to your computer.

3. COMPLETING YOUR FIRST SCAN

3.1 PLACING YOUR ORIGINAL

Open the document cover then place your original face down on the document glass as shown in Fig. 3-1.

Make sure the top of your original near the document alignment mark.



1. Document cover
2. Document alignment mark
3. Your original
4. Document glass

Figure 3-1 Placing the original

3.2 VERIFYING YOUR SCANNER INSTALLATION

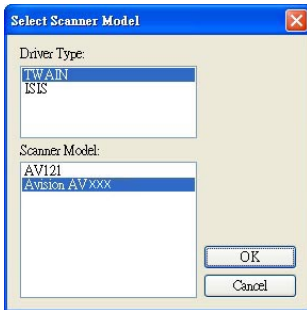
To verify if your scanner installation is correct, Avision provides you a useful test program called Avision Capture Tool. With this tool, you can perform simple scans and view the captured images. In addition, it helps you complete your scan at a rated speed.

The following procedure describes how to verify your scanner installation. If the installation is not correct, please review the preceding section to check if the cable connection and scanner driver have been successfully installed.

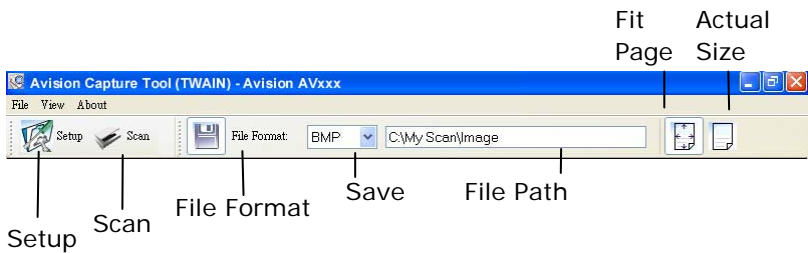
Before you begin, be sure the scanner is on.

1. Select Start>Programs>Avision AVxxx Scanner>Avision Capture Tool.

The Select Scanner Model dialog box will be displayed.



2. Select your driver type and scanner model and click OK. The following Avision Capture Tool dialog box will be displayed.



3. Choose your desired file format from the File Format drop down list box. (Default is BMP, other choice includes TIFF, GIF, and JPEG.)
4. Type your desired folder name and file name in the File Path box. (Default is C:\My Scan\Image.)

Note: If you do not wish to save the scanned image, deselect the Save button since default is Save Enable. In this case, the thumbnail view will be disabled. And therefore, after viewing all the scanned images, only the last one will remain on the screen.


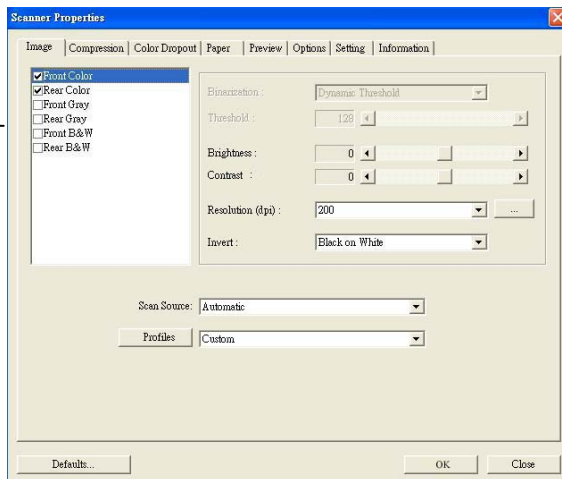

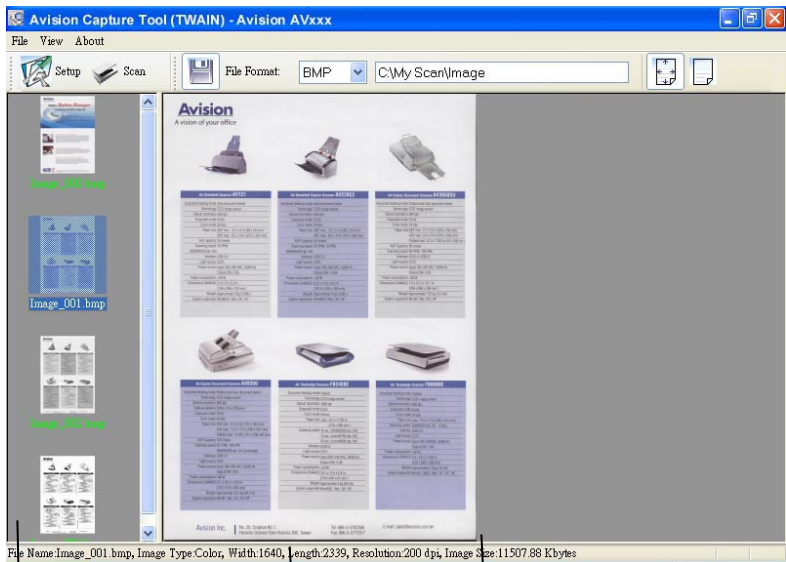
5. Click the Setup button () or choose Setup from the File menu to prompt the Scanner Properties dialog box.



Image
Selection
Box



6. From the Image Selection Box, choose your desired image type for your scanned image. (Default is Front B&W) If you have a duplex scanner, choose Front and Rear to scan both sides of your document.
7. Click OK to quit the Scanner Properties dialog box. (To learn more details about the Scanner Properties dialog box, please see the subsequent chapter, *Using the Scanner Properties Dialog Box*.)
8. Place your document face down on the document glass or face up in the auto document feeder.
9. In the Scan Validation dialog box, click the Scan button () or choose Scan from the File menu.
10. The document will be scanned and displayed in the Scan Validation screen. After the scanned images have been displayed, your scanner installation verification is completed.

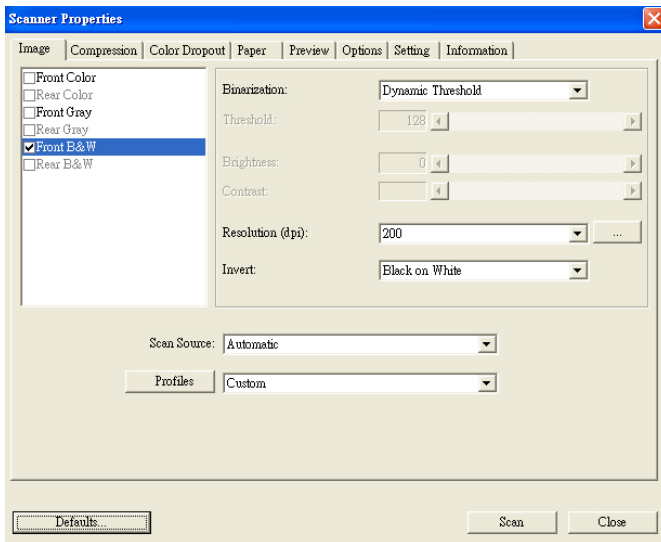


Thumbnail View Status Bar Fit Page View

11. You can view the scanned image in Fit Page () or Actual Size (100%) button () from the Viewing toolbars at the right side.
12. Click the Close box or Quit from the File menu to exit the Scan Validation Tool.

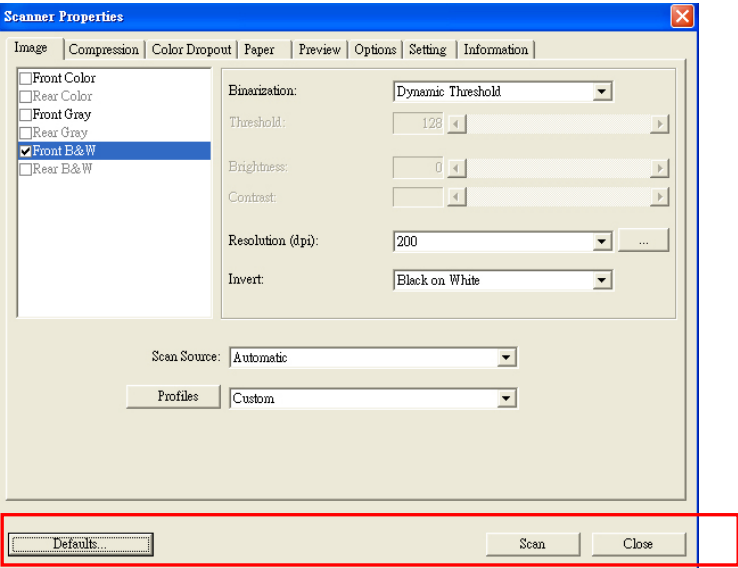
4. USING THE SCANNER PROPERTIES BOX

The Scanner Properties dialog box allows you to configure the scanner's settings. It consists of several tabbed windows each of which will be described in this chapter.



The Scanner Properties dialog box

4.1 **BUTTONS ON THE SCANNER PROPERTIES
DIALOG BOX**



The buttons on the Scanner Properties dialog box

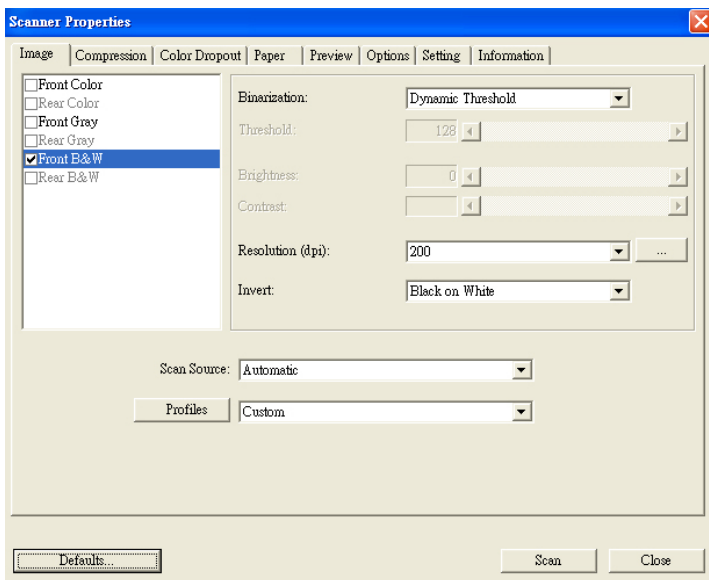
Buttons	Description
Defaults	Click the Defaults button, the factory default settings will be shown on each tab.
Scan	After all the scan settings are satisfactory, click the Scan button to start scanning your document.
Close	Click the Close button to leave the Scanner Properties dialog box.

The following table shows the default settings :

Tab name	Default settings
Image	Image : Front B&W Binarization : Dynamic Threshold Resolution : 200 dpi Invert : Blank on White Scan Source : Auto Document Feeder Threshold : None Brightness : None Contrast : None
Compression	None
Color Dropout	None
Paper	Cropping : Automatic Deskew : Yes Orientation : Portrait OverScan : 0.00 Multifeed Detection : None Unit : Inch
Options	Rotation Degrees : None Blank Page Removal : None Edge Fill : White , 0 mm Image Control Option : None
Setting	Enable Energy Saver : Enable, 15 minutes after last scan action Show Scanning Progress : Yes Show Warning Message : Yes Save Settings after Closing : Yes

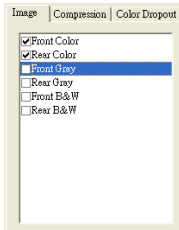
4.2 THE IMAGE TAB

The Image tab allows you to choose the front side and (or) the rear side of your document, the type of image, and to set several basic scan settings. Note that except for the resolution, you can set individual scan settings for the front side and the rear side. For example, all settings in the Image tab, Compression tab, Color Dropout tab can be set individually for the front and the rear side. However, the settings in the Paper tab, the Option tab, and the Setting tab have to be set the same for the front and rear side.



The Image tab dialog box

4.2.1 THE IMAGE SELECTION BOX



The **Image Selection** box includes the image type and document side option. If you wish to scan both the front side and the rear side of your color document, you can check both Front Color and Rear Color at the same time. Note the options vary based on type of scanner.

Example 1 : Scanning a two-sided color document, both sides in color

<p>The image shows the 'Image' tab of the selection box. Both 'Front Color' and 'Rear Color' checkboxes are checked. 'Rear Color' is highlighted with a blue bar.</p>	<p>The image shows the front side of a scanned document. It contains text about backing up data and a 'SHORTCUT' section with a cartoon character. Below the text is a 'COMPRESSING YOUR HARD DISK WITH DRIVESPACE' section with a screenshot of the Drivespace utility.</p>	<p>The image shows the rear side of a scanned document. It contains a table with multiple columns and rows of data, likely a spreadsheet or a list of items.</p>
<p>Side/Image Selection</p>	<p>Front</p>	<p>Rear</p>

Example 2 : Scanning a two-sided color document, one in B&W(Drop Blue Color : Threshold : 10, Background : 79), the other in color

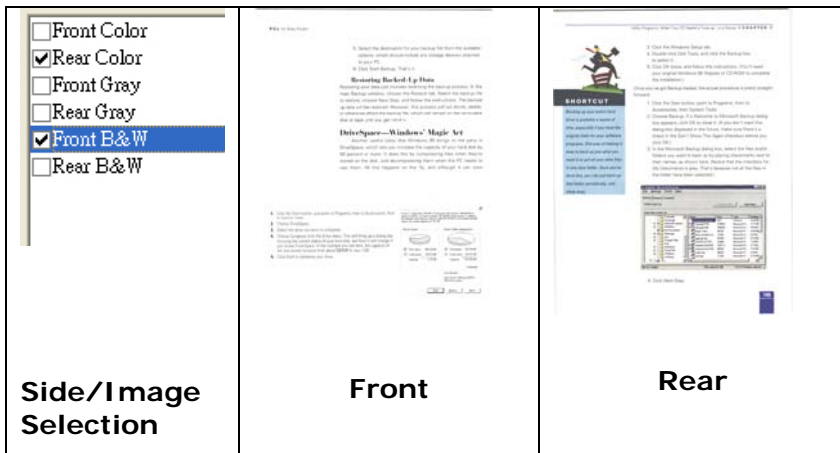
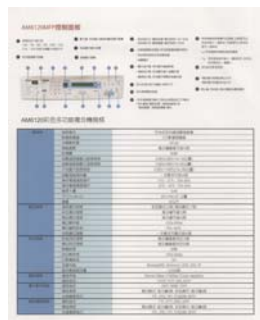


Image Type	Description
Color	Choose Color if you wish to scan a color image for your original in color.
Gray	Choose Gray image if your original contains actual shades of gray.
B&W	Choose B&W if your original contains only text, pencil or ink sketch.

[illegible]

B&W

Gray

Color

4.2.2 OTHER IMAGE OPTIONS

Binarization This is the process of converting a grayscale or color image to a bi-tonal image. There are several different methods of performing this conversion. Two of the options are **Dynamic Threshold** and **Fixed Processing**.

Dynamic Threshold: Selecting **Dynamic Threshold** allows the scanner to dynamically evaluate each document to determine the optimal threshold value to produce the highest quality image. This is used to scan mixed document containing faint text, shaded background, or color background with a single setting. If Dynamic Threshold is selected, Threshold, Brightness, and Contrast are not available.

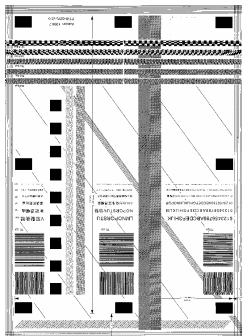
Fixed Processing: Used for black-and-white and other high contrast documents. A single level is set to determine the black-and-white transition. The threshold is programmable over the entire density range. **Fixed Processing** sets Contrast to 0. If **Fixed Processing** is selected, Contrast is not available.

Quality When you choose "Gray" to be your image type, the "Binarization" item will be changed to "Quality" and its option includes "High" and "Normal". Choose "High" to enhance your image and make your image look brighter.

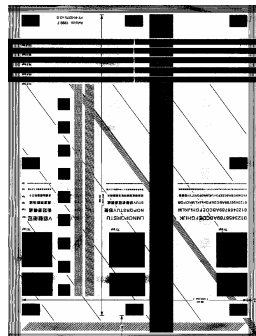
Threshold

Used to convert a grayscale image to a bi-tonal image. The value ranges from 0 to 255. A low threshold value produces a lighter image, and can be used to subdue backgrounds and subtle, unneeded information. A high threshold value produces a darker image, and can be used to help pick up faint images.

Adjust the threshold setting by dragging the Threshold sliding bar to the left or right to achieve the desired threshold setting.



200 dpi,
Threshold:80,
Brightness: 0



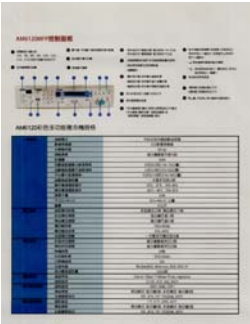
200 dpi,
Threshold:170,
Brightness: 0

Brightness

Adjusts the lightness or darkness of an image. The higher the value, the brighter the image. Drag the slider to the right or left to increase or decrease the brightness. The range is from -100 to +100.

Contrast

Adjusts the range between the darkest and the lightest shades in the image. The higher the contrast, the bigger the different grayscale. Drag the slider to the right or left to increase or decrease the contrast. The range is from -100 to +100.



Brightness: -50



**Brightness: 0
(Normal)**



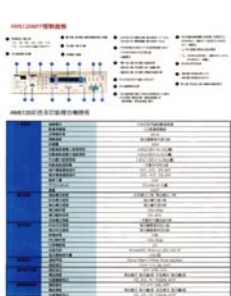
Brightness: +50



Contrast: -50



**Contrast: 0
(Normal)**



Contrast: +50

Resolution

A good control of the resolution results a good detail of an image that scans. The resolution is measured by dots per inch (dpi). Normally, the greater the dpi number, the higher the resolution and the image file size. Be aware that greater resolution takes more time to scan, and more disk space for the scanning image. For your information, an A4 size color image scanned at 300 dpi at True Color mode consumes approximately 25 MB of disk space. A higher resolution (usually means over 600 dpi) is only recommended when you need to scan a small area at True Color mode.

Choose a resolution value from the drop down list. The default value is 200 dpi. Available resolutions are 75, 100, 150, 200, 300, 400 and 600. Or you may choose your desired value by clicking the box in the right side of the drop down list and press the arrow key to select your desired value and then click the Add button to include it in the drop down list.



Resolution: 75 dpi



Resolution: 150 dpi

Invert Reverses the brightness and the colors in the image. The default setting is Black on a White background. Reverse mode is White on a Black background. For color images, each pixel will be changed into its complementary color at the command of Invert.

"I am not worthy to have you enter my

that is God, I beg all my brothers - those who work manually, clerics and lay brothers
ards being humble in all things; not to glorify
r to become interlorly proud because of good w
sometimes says or does in them or through t
ord: "Do not rejoice... in the fact that the de
: 10:20) Let us be firmly convinced of the fact

Black on White

"I am not worthy to have you enter my

that is God, I beg all my brothers - those who work manually, clerics and lay brothers
ards being humble in all things; not to glorify
to become interlorly proud because of good w
sometimes says or does in them or through t
ord: "Do not rejoice... in the fact that the de
10:20) Let us be firmly convinced of the fact

White on Black

Scan Source **Choice:**
Auto Document Feeder: Used to scan multiple pages.
Flatbed: Used to scan a single page. For example, pages from newspaper clipping, paper with wrinkles or curls.
Flatbed (book): Used to scan several inside pages from book.
Automatic: Allow the scanner automatically set its scan source. If **Automatic** is selected and there is document in both the auto document feeder (ADF) and the flatbed, then the scan source will be automatically set to ADF. If **Automatic** is selected and there is document only in flatbed, then the scan source will be set to flatbed.

Note the options vary based on type of scanner.

4.2.3 SCANNING COLOR IMAGES

The following options are available for scanning color images.

- Brightness
- Contrast
- Resolution
- Invert

4.2.4 SCANNING GRAYSCALE IMAGES

The following options are available for scanning gray images.

- Brightness
- Contrast
- Resolution
- Invert

4.2.5 SCANNING B&W IMAGES

The following options are available for scanning B&W images.

- Binarization (Dynamic Threshold)
- Resolution
- Invert

Or

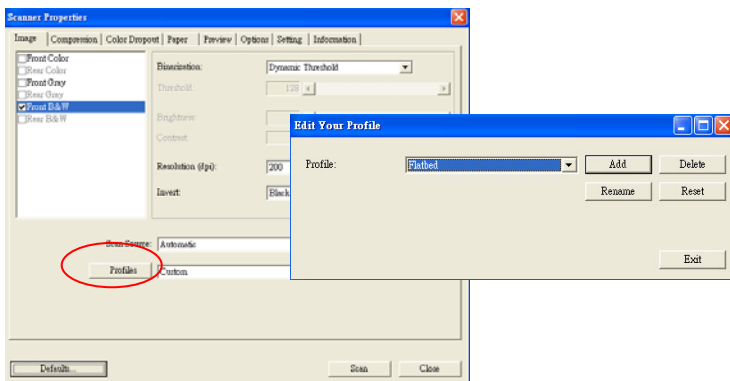
- Binarization (Fix Processing)
- Threshold
- Brightness
- Resolution
- Invert

4.2.6 EDITING PROFILES

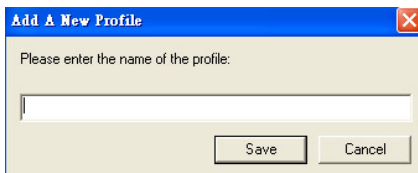
The Scanner Properties dialog box allows you to change and save your frequently used scan settings into a profile. You can edit these profiles by renaming or deleting them.

To add a new profile,

1. Customize your settings. (For example, change your resolution, image type, cropping method, scan size, or other scan settings.)
2. Click the Image tab and then choose “Profiles” to prompt the “Edit Your Profile” dialog box.



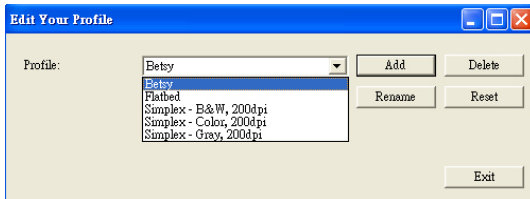
3. Click “Add” to enter the name of the profile and then choose “Save”.



4. The new profile will be saved and shown in the “Profiles” dropdown list box.

To load a profile,

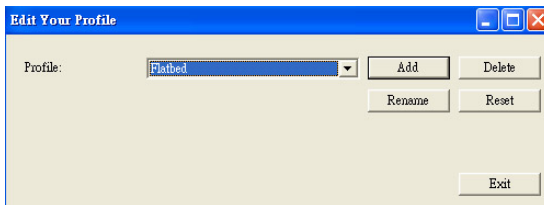
1. From the Image tab dialog box, choose your favorable profile from the “Profiles” dropdown list box.



2. Your favorable profile will be immediately loaded and displayed on Scanner Properties dialog box.

To delete a profile,

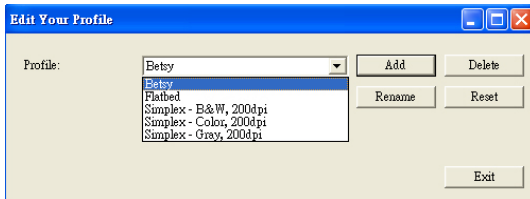
1. From the Image tab dialog box, click “Profiles” to prompt the Edit Your Profile dialog box.



2. Choose the profile you want to delete from the dropdown list box.
3. Click “Delete”. A Confirm message “Are you sure you want to delete this profile?” is prompted.
4. Choose “Yes” to delete or “Cancel” to quit.

To rename a profile,

1. From the Image tab dialog box, click “Profiles” to prompt the Edit Your Profile dialog box.



2. Choose the profile you want to rename from the dropdown list box and then click the Rename button.
3. Enter new name for the profile.



4. Choose “Save” to save the new profile or “Cancel” to quit.

Note:

The preset default profiles include Flatbed, Simplex-B&W, 200 dpi, Simplex-Gray, 200 dpi, Simplex-Color, 200 dpi, Duplex-B&W, 200 dpi, Duplex-Gray, 200 dpi, Duplex-Color, 200 dpi. If you have a simplex or a sheetfed scanner, the duplex or the flatbed option will not be available.

4.3 THE COMPRESSION TAB

The Compression tab allows you to compress your scanned image and choose the level of compression. Bi-tonal images are normally compressed using CCITT standard called Group 4 (G4). Color and grayscale images are often compressed using JPEG technology. Move the **JPEG Quality** slider to the right or left to increase or decrease the level of compression. Note the greater the compression level, the lower image quality. Default is 50%.

Note that the compression depends on your image editing application. If your image editing application does not support the type of compression format, then either a warning message will appear or the image quality of the compressed file will not be acceptable.

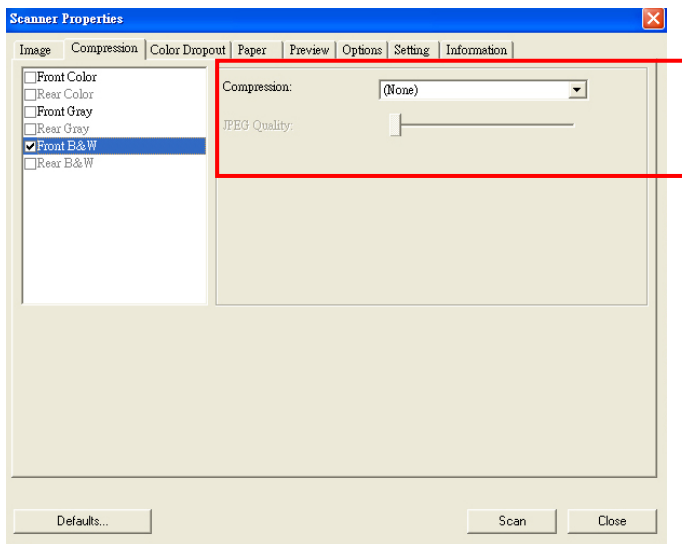
JPEG (Joint Photographic Editor Group). This group developed and lent their name to a file compression standard for color and grayscale images that is widely used by scanners, and software applications. On Microsoft Windows-based systems, a file with the extension .jpg has normally been compressed using this standard.

For scanning color or gray images, the following compressions are available:

- None
- JPEG

For scanning B&W images, the following compressions are available:

- None
- G4



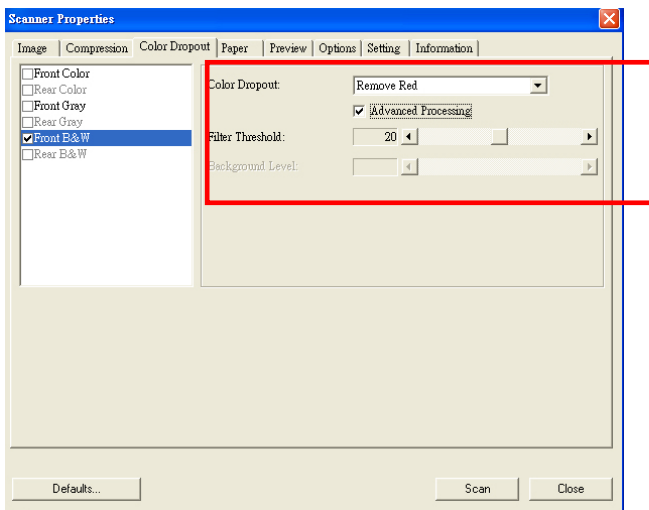
The Compression tab dialog box

4.4 THE COLOR DROPOUT TAB

4.4.1 COLOR DROPOUT SELECTION

Color Dropout tab allows you to drop either of the red, blue, or green color in your scanned image. If your image contains red color watermark or background, choose the R (Red) channel then any red watermark or background will be removed. This feature is used to sharpen your text when using OCR (Optical Character Recognition) software.

Note that this function supports only black & white and gray images. Therefore, be sure to choose any black & white or gray image type while applying this function.



The Color Dropout dialog box

4.4.2 OTHER COLOR DROPOUT OPTIONS

Advanced Processing provides two options that can adjust your scanned image in the best optimal result.

Filter Threshold

This value is used to determine the color which will be dropped out. A lower value will drop more of the selected color out, while a higher value will leave more of the selected color in.

Background Level

The pixel which is higher than the background value will be adjusted to the lightest point. Adjust the value for both the Filter Threshold and Background Level to produce the best optimal result.

Example, slightly adjusting the background value makes your text more clear.

AM6120彩色多功能複合機規格		
規格	產品類別	單張式彩色多功能複合機
	影像辨識規格	CCD影像辨識
	作業速度	約 30 頁/分
	掃描速度	每分鐘最高 1.2 英寸
	紙張規格	A4 幅面
	自動進紙機構之紙張規格	4.91x29.5 英寸 (11x 23.6 英寸)
	自動進紙機構之邊框規格	4.91x29.5 英寸 (11x 23.6 英寸)
	自動進紙機構之紙張厚度	0.075 英寸 (1.9 毫米)
	自動進紙機構之紙張重量	100 磅/平方英尺
	紙張厚度規格	0.075 英寸 (1.9 毫米)
掃描規格	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
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	紙張厚度規格	0.075 英寸 (1.9 毫米)
打印規格	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
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	紙張厚度規格	0.075 英寸 (1.9 毫米)
複印規格	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
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	紙張厚度規格	0.075 英寸 (1.9 毫米)
電子文件規格	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
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	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
網路規格	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
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	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)
	紙張厚度規格	0.075 英寸 (1.9 毫米)

Original

智慧燈杆	智慧燈杆	平谷區各主要道路智慧燈杆
	智慧燈杆	1. 智慧燈杆
	智慧燈杆	2. 智慧燈杆
	智慧燈杆	3. 智慧燈杆
	智慧燈杆	4. 智慧燈杆
	智慧燈杆	5. 智慧燈杆
	智慧燈杆	6. 智慧燈杆
	智慧燈杆	7. 智慧燈杆
	智慧燈杆	8. 智慧燈杆
	智慧燈杆	9. 智慧燈杆
通信燈杆	通信燈杆	1. 通信燈杆
	通信燈杆	2. 通信燈杆
	通信燈杆	3. 通信燈杆
	通信燈杆	4. 通信燈杆
	通信燈杆	5. 通信燈杆
	通信燈杆	6. 通信燈杆
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	通信燈杆	8. 通信燈杆
	通信燈杆	9. 通信燈杆
	通信燈杆	10. 通信燈杆
照明燈杆	照明燈杆	1. 照明燈杆
	照明燈杆	2. 照明燈杆
	照明燈杆	3. 照明燈杆
	照明燈杆	4. 照明燈杆
	照明燈杆	5. 照明燈杆
	照明燈杆	6. 照明燈杆
	照明燈杆	7. 照明燈杆
	照明燈杆	8. 照明燈杆
	照明燈杆	9. 照明燈杆
	照明燈杆	10. 照明燈杆
智慧交通燈杆	智慧交通燈杆	1. 智慧交通燈杆
	智慧交通燈杆	2. 智慧交通燈杆
	智慧交通燈杆	3. 智慧交通燈杆
	智慧交通燈杆	4. 智慧交通燈杆
	智慧交通燈杆	5. 智慧交通燈杆
	智慧交通燈杆	6. 智慧交通燈杆
	智慧交通燈杆	7. 智慧交通燈杆
	智慧交通燈杆	8. 智慧交通燈杆
	智慧交通燈杆	9. 智慧交通燈杆
	智慧交通燈杆	10. 智慧交通燈杆
智慧交通燈杆	智慧交通燈杆	1. 智慧交通燈杆
	智慧交通燈杆	2. 智慧交通燈杆
	智慧交通燈杆	3. 智慧交通燈杆
	智慧交通燈杆	4. 智慧交通燈杆
	智慧交通燈杆	5. 智慧交通燈杆
	智慧交通燈杆	6. 智慧交通燈杆
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	智慧交通燈杆	8. 智慧交通燈杆
	智慧交通燈杆	9. 智慧交通燈杆
	智慧交通燈杆	10. 智慧交通燈杆

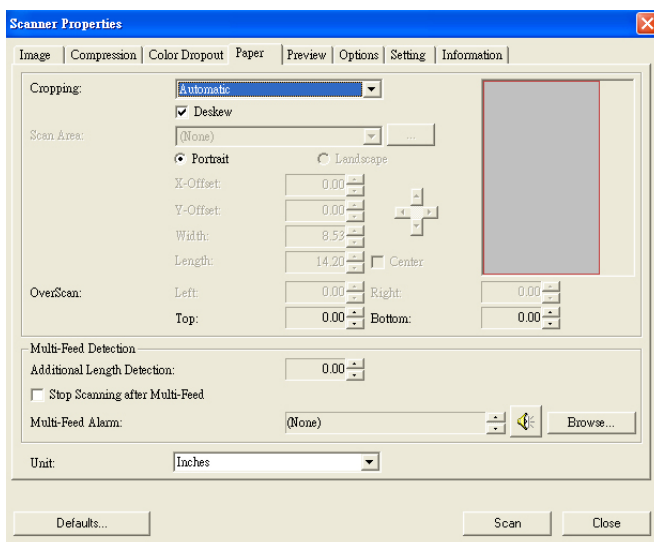
Remove Blue, Threshold: 20, Background: 255

[illegible]

**Remove Blue, Threshold: 20,
Background Level: 210**

4.5 THE PAPER TAB

The Paper tab allows you to define values relating to image output (i.e., Auto Crop or not, Scan Area, OverScan, Multi-Feed Detection).



The Paper tab dialog box

4.5.1 CROPPING

Cropping allows you to capture a portion of the document being scanned. **Choice: Automatic, Fixed to Transport, EOP (End of Page) Detection.**

Options	Description
Automatic	Automatic adjusts the cropping window according to different document sizes. Use this option for batches of mixed-sized documents.
Fixed to Transport	This feature allows you to define the area or zone to be imaged. Use for batches of same-sized documents. If you select this option, you can use the arrow keys to define the x and y offset values, width and length to redefine your scanned area. The Display window will show image placement as you change the values.
EOP (End of Page) Detection	This feature allows you to define the area or zone to be imaged. Use for batches of same-width but different length documents. If you select this option, you can use the arrow keys to define the x and y offset values, width and length to redefine your scanned area. The Display window will show image placement as you change the values.

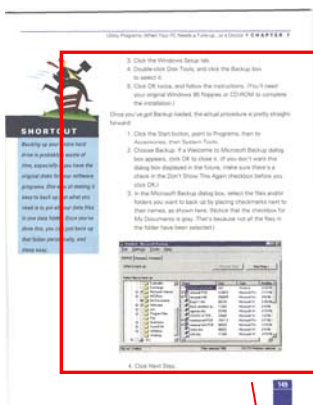
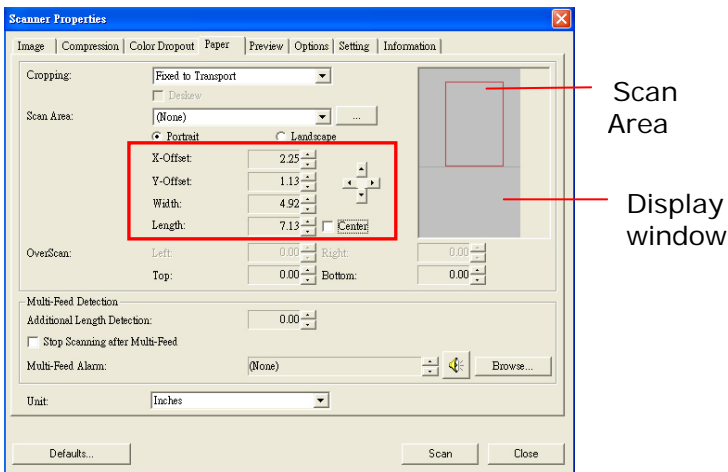
The following options are only available when **Fixed to Transport** is selected.

- **X-Offset** — the distance from the left end of the scanner to the left edge of the scanning area.
- **Y-Offset** — the position from the top end of the document to the top end of the scanning area.
- **Width** — the width of the scanning area.
- **Length** — the length of the scanning area.
- **Center:** automatically calculates the x-offset for center-fed feeding based upon document size selected.



- — relocate the scan area by click the arrow key on the cross sign while retain the scan size. View the result from the Display window.

Example : Redefine your scan area (x-offset: 2.25 inches ; y-offset: 1.13 inches)



Original

After Fixed to Transport

The Redefined Scan Area

4.5.2 OTHER PAPER SELECTION

Deskew

Use this option to automatically deskew a document.



Note: If the skew angle is too great, some of the image may be cut off.

Scan Area

Choose your desired paper size with the drop-down list box. Or you may select a custom paper size by clicking the **Scan Area** box and then click **Add** to include in the choice.

Choice: None, US Letter- 8.5"x 11", US Legal – 8.5" x 14", ISO A4 – 21 x 29.7 cm, ISO A5 – 14.8 x 21 cm, ISO A6 – 10.5 x 14.8cm, ISO A7 – 7.4 x 10/5 cm, ISO B5 – 17.6 x 25 cm, ISO B6 – 12.5 x 17.6 cm, ISO B7 – 8.8 x 12.5 cm, JIS B5 – 18.2 x 25.7 cm, JIS B6 – 12.8 x 18.2 cm, JIS B7 – 9.1 x 12.8 cm, Scanner Maximum, Long Page.

Long Page:

When you need to scan documents whose length exceeds scanner maximum, please choose Long Page. Note if Long Page is selected, the Multi-Feed Detection will not be available. Options: Unlimited, Enter Length (Note: This option varies due to type of scanner.)

Choose “Unlimited” if you have a batch of long page document with unknown length. Choose “Enter Length” to enter the length and width of your documents or your desired scan size on documents. This is useful when you have a batch of documents with the same scan size or a batch of same-sized documents.

OverScan

Overscan allows you to add a specific margin at top and bottom or right and left (Options vary based on the type of scanner) of the edge of the image. This is used to reduce possible corner clipping on the skewed images and often applied to a batch of skewed document to be scanned in the auto document feeder. Select a value between 0 and +5 mm. Note the overscan result will not be shown in the Display window and that the availability of the function varies based on type of scanner.

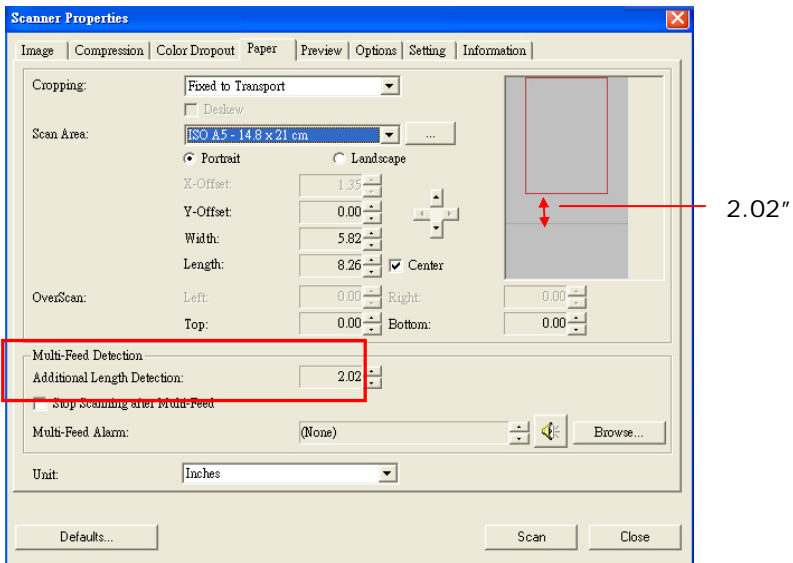
Multi-Feed Detection

Multi-Feed Detection allows you to detect overlapped document that go through the auto document feeder. Multi-Feed usually occurs due to stapled documents, adhesives on documents, or electro-statically charged document. Note : The availability of the function varies based on type of scanner.

Additional Length Detection

Additional Length Detection allows you to define the length of document being multi-fed. This value indicates the additional length exceeding your scan area. The Display window will show the size of the document as you change the value. A value of 0 indicates no additional length detection. The Additional Length Detection is best used when scanning same-size documents in the auto document feeder.

Example : Additional Length Detection : Set Additional Length to be 2.02 inches



There are two options available if Multi-Feed is detected.

- **Stop Scanning after Multi-Feed**
If this is selected, the scanner will stop the feeder if multi-feed is detected.
- **Sound Alarm on Multi-Feed:**
If this is selected and a wave file is added, the scanner will produce a sound alarm if multi-feed is detected.

How to add the sound alarm :

1. Click the Browse button on the right side of the speaker icon. The Open dialog box appears.
2. Choose your wave file.
3. Click the Open button. The wave file is added.

Units

Defines the primary measurement system. **Inches**, **Millimeters**, and **Pixels** are available.

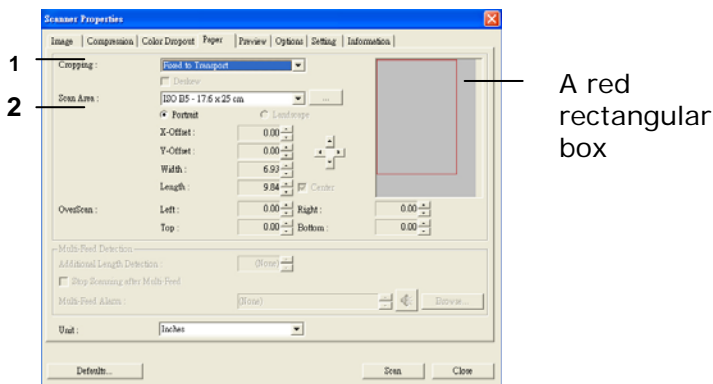
4.5.3 RELATIVE TO DOCUMENT

Relative to Document: (used for batches of same-sized documents)

This option allows you to crop different areas on your documents and deliver these images in B&W, Gray, or Color separately. For example, there are applications which require you to store the entire document in B&W and a part of the document in color to save storage space. This is useful for documents where a photograph, or signature appears in a consistent area on the document such as resumes, and so on.

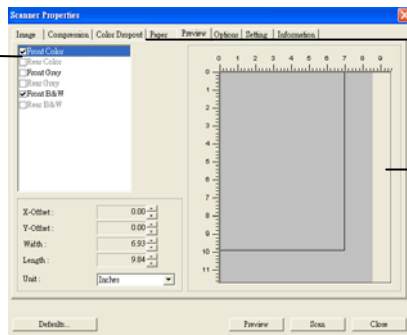
The following procedure describes how to reproduce the entire document in B&W and a portion of document (picture) in color.

1. On the Paper tab, choose “Relative to Document” or “Fixed to Transport” from the Cropping option.
2. Choose your scan size from the Scan Area option. The selected scan size will be displayed in a red rectangular box. This is also the scan size of your entire document. (For example, ISO B5. If you have not chosen a scan area and leave the selection as None, then the default area will be the scanner’s maximum.)



- Click the Preview tab to display the Preview window. A black rectangular box appears to indicate the max. scan size you have just selected.

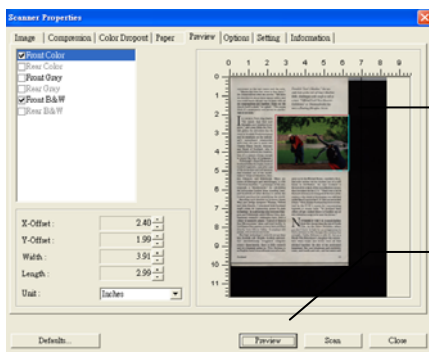
The Image Selection Box



The selected image

A black rectangular box

- Click the Preview button to view the entire image in low resolution to correctly crop your relative scan area.



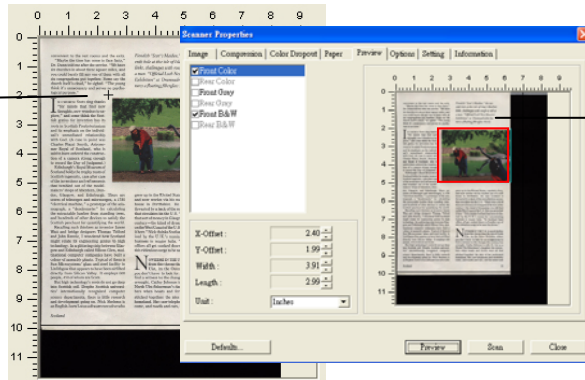
The Preview Image

The Preview Button

- Select image type from the Image Selection box. The selected image will appear in highlighted color. (For example, Front Color)
- Place your cursor on the Preview window and click your left mouse button. A cross sign will appear as illustrated. Create your relative scan size diagonally by dragging the left mouse button to your preferable size. The selected area will appear in a red box as illustrated.

A Cross
Sign

The
Relative
Area



7. Check the B&W image from the Image Selection box to scan the entire document.
8. Click the Scan button to start scanning the document in two image types and sizes. (See the result in below.)

convenient in the rest rooms and the entry.
"Maybe the time has come to turn facts,"
Dr. Dunn told me after the service. "We have
six churches in about three square miles, and
you could easily fill one of them with all
six congregations put together. Some say the
church itself is dead," he sighed. "The young
think it's unnecessary and serves no psycho-
logical purpose."

It is curious Scots think thanks
"for rituals that find new
meanings, new wonder in new
places," and some think the Scot-
tish genius for invention lies in its
roots in Scottish Presbyterianism
and its emphasis on the individ-
ual's commitment relationship
with God. (It was in part was
Charles Piazzi Smyth, Astron-
omer Royal of Scotland, who is
said to have ordered the construc-
tion of a camera obscura enough
to record the Day of Judgment.)
Edinburgh's Royal Museum of
Scotland holds the trophy room of
Scottish trophy, case after case
of the inventions and refinements
that turned out of the world-
maker's shop of Aberdeen, Glas-
gow, Glasgow, and Edinburgh. There are
scores of telescopes and microscopes, a 1780
"electrical machine," a prototype of the tele-
graph, a "dendrometer" for calculating the
extensible timber from standing trees,
and hundreds of other devices to satisfy the
Scottish penchant for quantifying the world.
Reading such diaries as inventor James
Watt and bridge designer Thomas Telford
and John Rennie, I wondered how Scotland
might enter its engineering golden age of high
technology. In a glittering study between Glas-
gow and Edinburgh called Silicon Glen, multi-
national computer companies have built a
colony of assembly plants. Typical of them is
Sun Microsystems' glass-and-steel facility in
Lashique that appears to have been airlifted
directly from Silicon Valley. It employs 600
people, 400 of whom are Scots.
But high technology's roots do not go deep
into Scottish soil. Despite Scottish univer-
sities' internationally recognized computer
science departments, there is little research
and development going on. Nick Shute is
an English-born dataware executive who

*Finnish "Sea's Maiden," the sea-
cub hole at the site of Ilaly's Machine
links, challenges with rough as tall as
a man. "Official Look New Monster
Exhibition" at Dronmadschit fas-
tures a floating fiberglass Nasse.*



grew up in the United States, married a Scot,
and now works via his modem out of a mill
house in Perthshire. He says Scotland is
drowned by a lack of the serendipitous money
that circulates in the U.S. "There was a lot
of that sort of money in Glasgow at the turn of the
century—the kind of operation you still find
on the West Coast of the U.S. But now we're
lousy there," Nick thinks Scotland has been victim-
ized by the U.K.'s mania for concentrating
business in major hubs. "So Scotland head
offices all get sucked down to London out of
this ridiculous urge to be near the throne."

NOWHERE IS THE U.S. is much further
from the throne than the lake of North
Dale. In the Outer Hebrides, where
you don't have to look for an octagonarian to
find a witness to the changes this country has
wrought, Cathy Johnson is only 31, but as a
North Uist fisherman's daughter she remem-
bers when boats and ferries were all that
clutched together the life of her peripatetic
homeland. She saw telephones and electricity
cops, and roads and cars, not hot water and



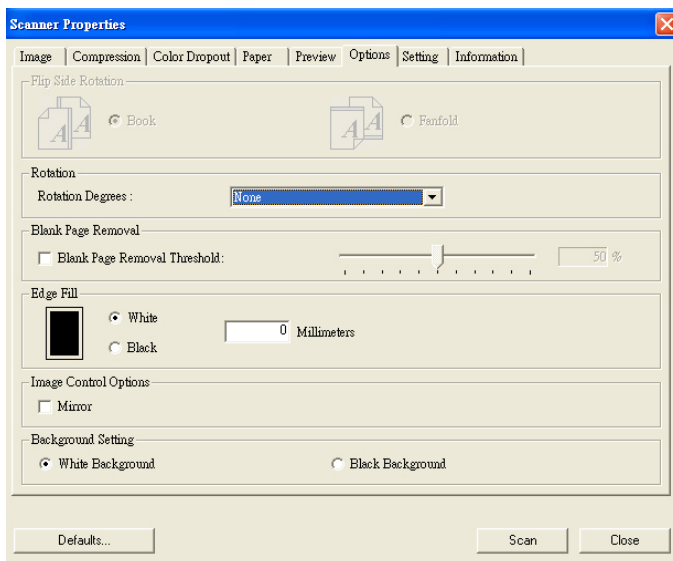
Scotland

23

The entire document in B&W The relative area in color

4.6 THE OPTIONS TAB

The Options tab allows you to set following additional image processing settings.



The Option tab dialog box

Flip Side Rotation

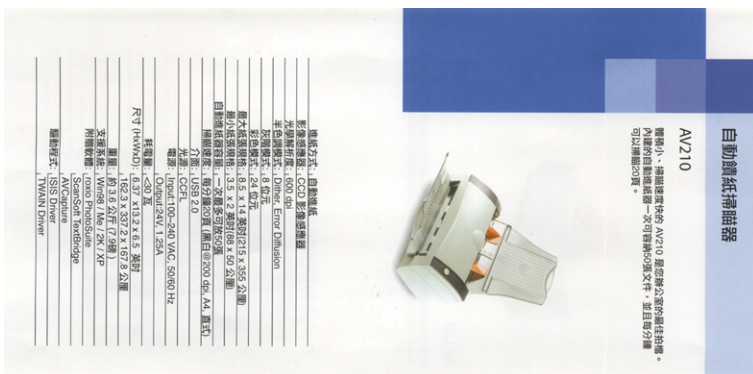
Select "fanfold" to rotate the image of the reverse side to 180 degrees.

This is applied to double-sided document which are viewed in portrait are sometime fed into the scanner in landscape or vice versa.

Choice: Book, Fanfold.

If "Book" is selected, the image of the reverse side will not be rotated.

The following illustration shows the documents which should be viewed in portrait are fed into the scanner in landscape



Rotate Image

Choose the rotation angle from the drop down list if you wish to rotate your scanned image.

Choice: None, 90° CW(clockwise), 90° CCW(counter clockwise), 180°.

1 2 3

Original

1
2
3

Rotate 90° CW

1
2
3

Rotate 90° CCW

1 2 3

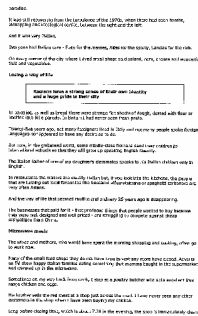
Rotate 180°

Blank Page Removal

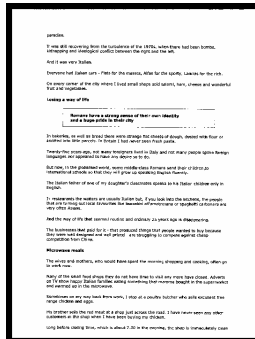
Check if you wish to remove the blank page and move the slider to the left or right to your desired threshold.

Edge Fill

Check White or Black if you wish to add white or black edge on the border of your scanned image. Enter the value from 0 to 5 mm. Default value is 0.



Original



Edge Fill: 5mm (Black)

Image Control Option

Check the Mirror box if you wish to reverse the right and left side of your image.



Original



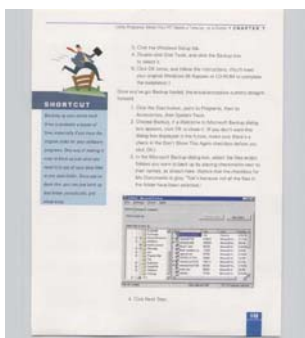
The Mirror Effect

Background Setting

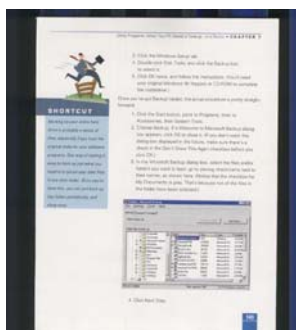
This option allows you to set your scan background.

Choice: White Background, Black Background.

**This option varies based on type of scanner and is available for the front page in the ADF (auto document feeder) only. For the rear page, only the white background is available.*



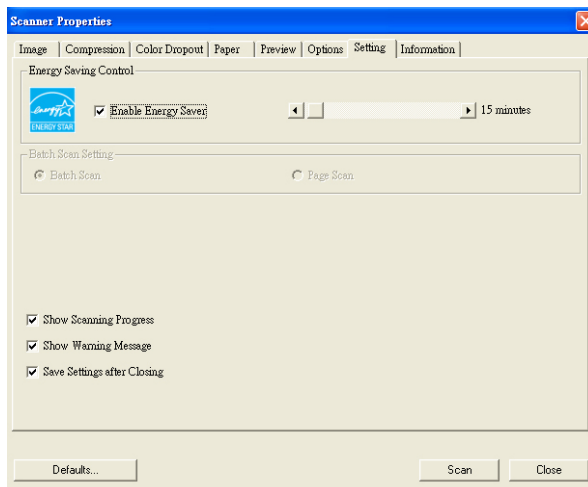
White Background



Black Background

4.7 THE SETTING TAB

The Setting tab allows you to set the following settings:



The Setting tab dialog box

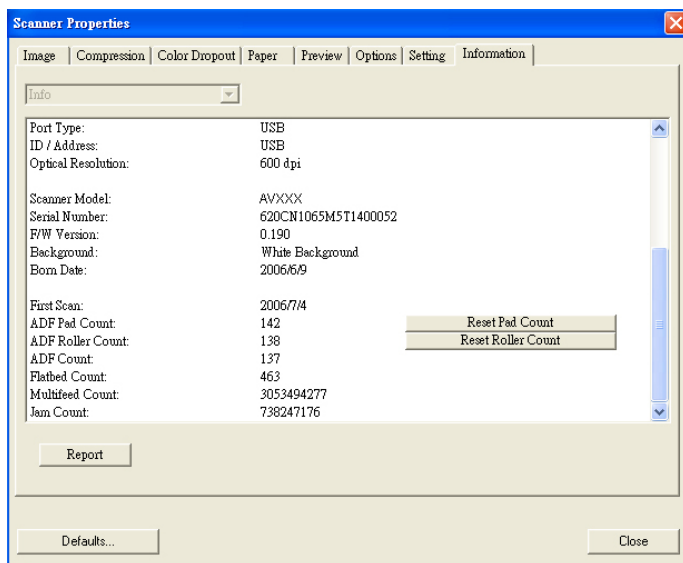
Energy Saving Control	Check the Enable Energy Saver box and move the slider to the right to set the amount of time to start the energy saver after your last action. The range is from 1 to 720 minutes. The default is 15 minutes.
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Batch Scan Setting	<ul style="list-style-type: none"> Batch Scan To increase the scanning speed, the scanner first scans a few pages of your document and then sends these scanning data to the application. Therefore, during scanning, the numbers of pages been scanned on the scanner is somehow different with the numbers of pages displayed on your computer screen. Choose this mode if you wish to complete your scanning task at the fastest speed. Page Scan If you choose Page Scan, during scanning, the scanner will first scan only one page of your document and then send the scanned data to the application and then scan the next page and send the next data to the application, and so on. Therefore, in this mode, the scanning speed is slower yet this helps to keep the same scanning progress between the scanner and your computer screen. Note: The availability of this feature varies based on type of scanner.
Show Scanning Progress	Check and the scanning progress bar will be shown during scanning.

Show Warning Message	Check to show the warning messages such as "ADF pad count exceeds 50,000 scans (the number varies based on type of scanner). Please replace the ADF pad and reset the pad count."
Save Settings after Closing	Check to save your scanner properties settings after leaving the dialog box. Next time when you open the Scanner Properties dialog box, the previously saved settings will be shown.

4.8 THE INFORMATION TAB

The Information tab displays the following system and scanner information.



The Information tab dialog box

The “Report” button :

If you encounter any error message while using the scanner, click the Report button. A report.txt file (C:\AVxxx) will be generated. Please send this file to the nearest service center for trouble shooting.

The “Reset Pad Count” button :

After scanning approximately 50,000 pages (the number varies based on type of scanner) through the Auto Document Feeder (ADF), the ADF pad may be worn out and you may experience problems with document feeding. In this case, it is highly recommended to replace the ADF pad with a new one. (Please refer to the manual for proper replacing procedure.) For ordering the ADF pad, please consult your nearest dealer. After replacing the ADF pad, click the **“Reset Pad Count”** button to reset the pad count.

The “Reset Roller Count” button :

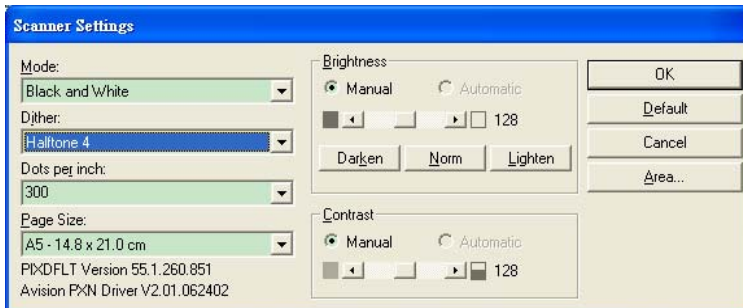
After scanning approximately 200,000 pages (the number varies based on type of scanner) through the ADF, the ADF roller may be worn out and you may experience problems with document feeding. In this case, it is highly recommended to replace the ADF roller with a new one. (Note the replacement of the ADF roller has to be performed only by authorized service center. Therefore, please return your scanner for roller replacement.) After replacing the ADF roller, click the **“Reset Roller Count”** button to reset the roller count.

Note :

The lifetime and the replacing procedure vary based on type of scanner. Please consult your nearest dealer for more details.

5. ISIS INTERFACE OPERATION

The ISIS driver operation method is similar to the TWAIN's. Every function on the ISIS interface screen is briefly described as below:



Mode: Select one of scan modes, including B/W, gray, color options.

Dither: 5 halftone levels available, can be disabled.

Dots per inch: Select your desired resolution.

Paper Size: Select your desired paper size.

Brightness: Adjust your scan image brightness or darkness.

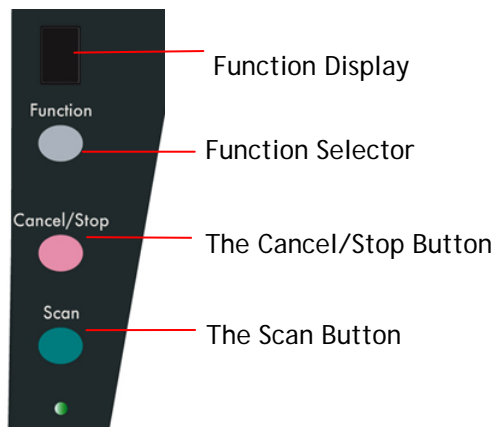
Contrast: Adjust the range between the darkest and the lightest shades in the image.

Default: Click to reset all settings.

Area: Select your desired scan area or position.

6. USING THE BUTTON

The convenient buttons on the scanner is shown as below:



6.1 INSTALLING BUTTON MANAGER

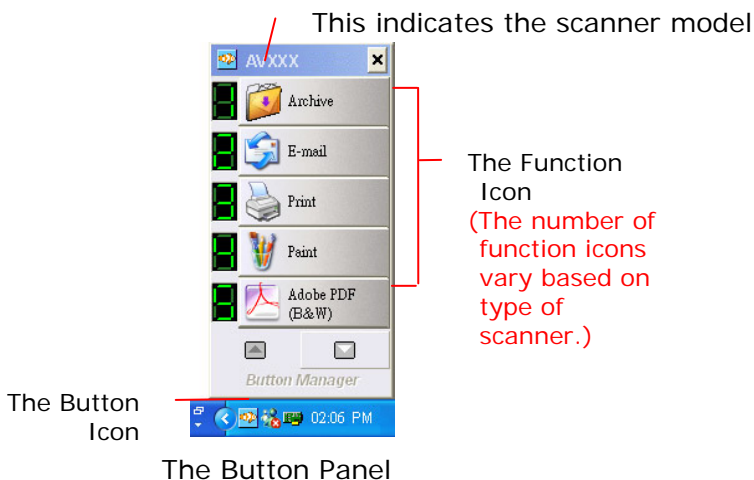
To use the buttons on the scanner, you need to install the Button Manager. To ensure the Button Manager work properly, please FIRST install Button Manager before installing the scanner driver.

Installing the Button Manager is easy. Insert the supplied CD to your CD-ROM drive and follow the instructions on the screen to complete the installation.

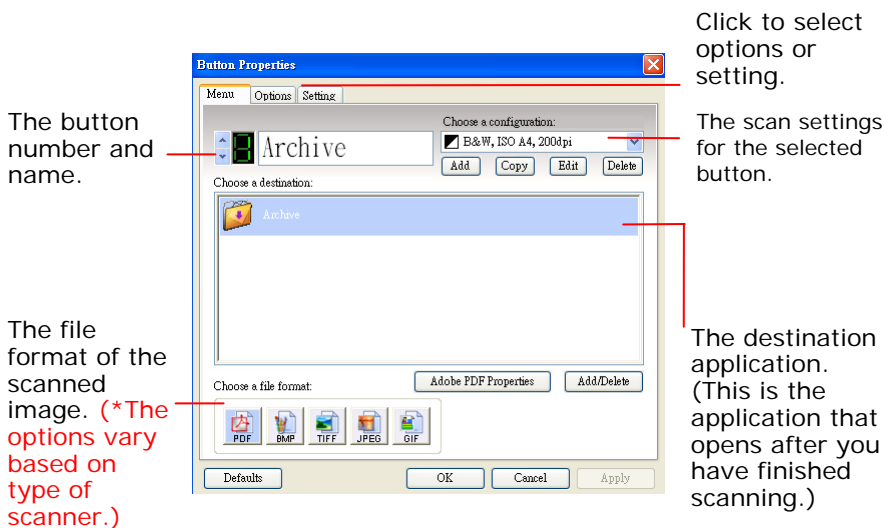
Button Manager provides you an easy way to scan your document and then link the scanned image to your designated software application. All this can be done by a simple touch of the button on the scanner. Yet, before you scan, it is recommended to check the button configurations first to ensure a proper file format and a destination application.

6.2 CHECKING THE BUTTON CONFIGURATIONS BEFORE SCANNING

1. After the Button Manager and the scanner driver have been successfully installed on your computer, the Button Panel will be displayed in the Windows System Tray at the bottom right corner of your computer screen.



2. The Button Panel shows the first five scanning buttons. Right-click the button (function) you wish to check. The Button Properties window appears.



The default setting is indicated in highlighted color. If you wish to change the setting, use this window to reset the setting for the file format, destination application, or other scan settings. See "Configuring the Button" in the subsequent section to reset the settings.

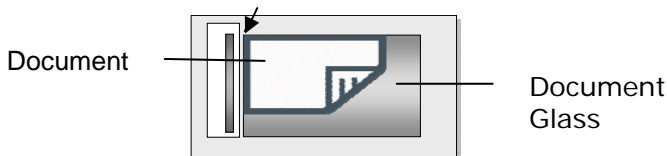
3. Click the OK button to leave the window.

6.4 PERFORMING CONTINUOUS SCAN FROM THE FLATBED

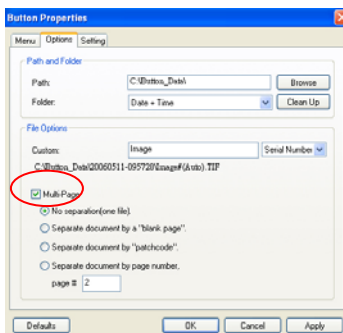
If your scanner comes with a flatbed module, Button Manager provides you a convenient feature to perform continuous (multi-page) scan from the flatbed. Simply inserting next page of your document and then pressing the Scan button, your multi-page scan from the flatbed can be completed. This feature is particularly useful when you need to scan inside pages of a book.

To perform continuous scan from the flatbed,

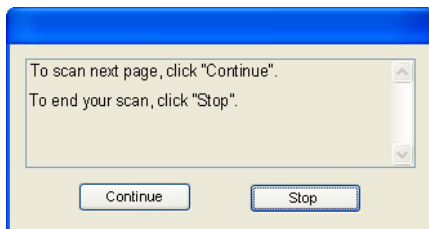
1. Open the document cover.
2. Place your document with the text facing down on the glass. Make sure that the upper left corner of your document is near the home position as marked by arrow.



3. From the Button Properties window, choose your file format to be PDF, TIFF, or DjVu.
4. From the Options tab in the Button Properties window, choose "Multi-Page".



5. Check if the number displayed in the LCD screen is your favorable setting for the scanned image.
6. Press the Scan button on the scanner.
7. When the scanner completes first-page scan, a "Continue or stop" dialog box appears.



8. Place next page of your document on the glass.
9. Choose "Continue" or simply press the Scan button on the scanner to scan next page.
10. If your scan is completed, click "Stop" to close the dialog box.

Note:

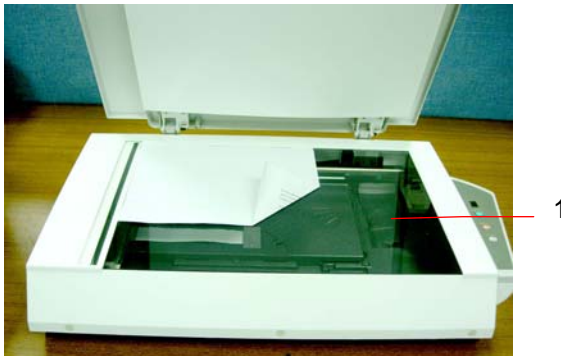
1. The scanner is designed to automatically set your scan source. If your scanner is equipped with both the auto document feeder and the flatbed, the scanner can automatically set your scan source whenever there is paper on the source. However, if there is paper on both the auto document feeder and the flatbed, the scanner will set auto document feeder to be the scan source.
 2. If you choose to perform flatbed scan, the scanner can still perform "automatic crop" and "deskew" for the scanned image. However, the "Multi-feed Detection" and "Duplex" functions will be disabled.
-

7. CARE AND MAINTENANCE

7.1 CLEANING THE GLASS

The procedures

- 1) Soak a cotton swab with some isopropyl alcohol. (95%)
- 2) Open the document cover as shown in Figure 7-1. Wipe the document glass by moving the swab from side to side.
- 3) Close the document cover. Your scanner is now ready for use.



1. Document glass

Figure 7-1 The cleaning area

8. TROUBLESHOOTING

If you have problems with the operation of your scanner, please check the following troubleshooting hints.

8.1 FREQUENTLY ASKED QUESTIONS

Question: When the scanner is powered on, it makes noises and won't stand ready.

Answer: There are two possibilities:

- 1) You might fail to push the scanner shipping lock to its "use" position. If this is the case, pull the scanner status switch to its "use" position first.
- 2) The scanner is not placed on an even, flat desktop surface. This may cause the scanner to malfunction.

Question: The scanner is powered on, but the lamp does not light up.

Answer: The lamp is probably out of order. Contact your local dealer or distributor to replace the lamp. For your information, the average life time of the lamp is about 15,000 hours and the operating temperature for the scanner is between 10°C(50°F) and 40°C(104°F).

Question: While scanning, the scanner often makes noises, or it scans back and forth.

Answer: Usually this means the memory of your computer is not enough or the speed of your CPU too slow. Please try to increase your memory to at least 32M or replace your CPU with Pentium or later.

Question: Why is it that the scanned image always comes out to be too dark?

Answer: 1) Modify the Gamma setting to 1.8~2.2 for your monitor and, when printing, set the Gamma setting to 2.2 for your printer.
2) Adjust the Brightness setting from the TWAIN user interface to get a brighter image.

Question: The scanner works well except for the line art image. The lines in the image seem to be much thicker than the original one.

Answer: Increase the Brightness or adjust the Threshold setting to improve line art image.

8.2 TECHNICAL SERVICE

Technical support for Avision scanner is provided at Avision Technical Assistance Center (ATAC). Before contact with ATAC, please prepare the following information.

- Scanner serial & revision number (located on the bottom of the scanner)
- Hardware configuration (e.g., your host CPU type, RAM size, free disk space, display card, interface card, etc.)
- The name and version of your software application
- The version of your scanner driver.

Please call us at:

Avision Inc.

Address:	No.20, Creation Road I, Science-Based Industrial Park, Hsinchu, Taiwan
Telephone number:	+886 (3) 578-2388
Fax number:	+886 (3) 577-7017
Web Site:	http://www.avision.com
E-mail:	service@avision.com.tw

9. SPECIFICATIONS

All specifications are subject to change without notice.

Model Number	DT-0602S
Scanner Type	Flatbed
Scanning Mode	Color/Grey/Black & White
Optical Resolution	600 * 600 dpi
Light Source	Cold cathode fluorescent lamp
Maximum Scanning Size	11.8" x 17"
Interface	High Speed USB 2.0
Power Requirement	24Vdc, 2.0A
Power Consumption	< 30 watts (operation) < 6 watts (standby)
Humidity	20% to 80% RH
Operation Temperature	10°C to 40°C
Storage Temperature	-10 to 50°C
Dimension	645 x 428 x 135 mm (WxDxH)
Weight	7.6 kgs